

Appl. No. 09/894,447  
Amdt. Dated April 28, 2004  
Reply to Office Action of March 26, 2004

Attorney Docket No. 83373.0002  
Customer No.: 26021

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently Amended) A deposition system for depositing silica particles onto a workpiece comprising:
  - (a) a burner for depositing the particles onto the workpiece;
  - (b) a lathe for holding the workpiece and for rotating and translating the workpiece relative to the burner; and
  - (c) a computer for controlling the translating and rotating of the workpiece relative to the burner;

wherein the lathe is for at times translating selectively translates the workpiece at a rate of greater than about 1.4 meters per minute.

2. (Original) The deposition system of claim 1, further comprising a casing enclosing the burner and the lathe, wherein the casing includes a plurality of vents.

3. (Currently Amended) The deposition system of claim 1, further comprising a casing enclosing the burner and the lathe, wherein the casing comprises Hasteloy a nickel-chromium-molybdenum alloy.

4. (Original) The deposition system of claim 1, further comprising two end torches wherein one of the two end torches is adjustable with respect to a distance between the two end torches.

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5. (Original) The deposition system of claim 1, wherein the workpiece is translated according to a motion profile.

6. (Original) The deposition system of claim 1 wherein the workpiece is translated at a speed of at least about seven meters per minute and an acceleration of at least about 250 millimeters per second per second.

7-26. (Canceled)

27. (Original) A deposition system for depositing silica particles onto a workpiece comprising:

- (a) a lathe for holding the workpiece;
- (b) a burner for depositing the particles onto the workpiece and at least one motor for translating the burner relative to the workpiece; and
- (c) a computer for controlling the translating and rotating of the workpiece relative to the burner;

wherein the computer is configured to translate the burner relative to the workpiece at a rate at times greater than about 1.4 meters per minute.

28-51. (Canceled)